# COMMUNICATIONS SUBSYSTEM

**INTERCOM EQUIPMENT**
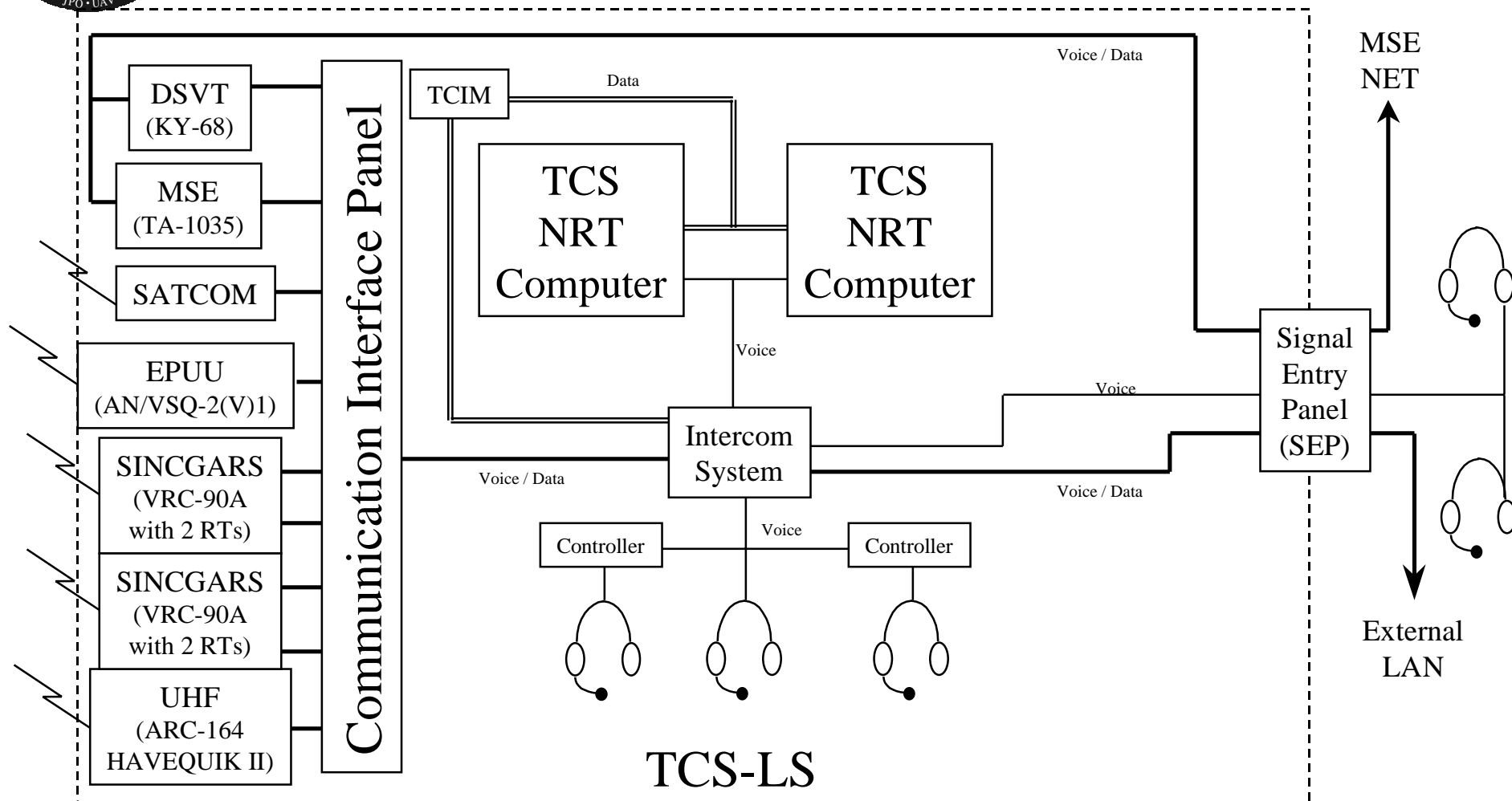
**C4I SUPPORT EQUIPMENT**

**COMMUNICATIONS EQUIPMENT**

# Communication System Requirements

- The Intercom will provide the means for the C4I Support Equipment to interface with all the radios and MSE lines to support the sending and receiving of C4I messages.

- The Intercom will generate tone and voice warnings to the applicable headsets as commanded by the Non-Real-Time Computers.

- The Communication System will consider all Service Specific Communication System Requirements.

- Each component of the Communication System will be capable of initiating BIT for itself and reporting the results.

- The Communication System design will comply with TCS RAM requirements.

- The Communication System design will comply with TCS environmental requirements.

- The Communication System design will comply with TCS security requirements.

# COMMUNICATION SYSTEM FLOW DIAGRAM

**DSVT** (KY-68)

**MSE** (TA-1035)

**SATCOM**

**EPUU** (AN/VSQ-2(V)1)

**SINCGARS** (VRC-90A with 2 RTs)

**SINCGARS** (VRC-90A with 2 RTs)

**UHF** (ARC-164 HAVEQUIK II)

**Communication Interface Panel**

**TCIM**

Data

**TCS NRT Computer**

**TCS NRT Computer**

Voice / Data

**MSE NET**

Voice

**Intercom System**

Voice

Voice / Data

Voice / Data

Voice / Data

Voice

**Signal Entry Panel (SEP)**

**Controller**

**Controller**

Voice

**External LAN**

**TCS-LS**

**Additional Equipment**

| Handheld SINCGARS (PRC-126 with Charging Rack) | Handheld SINCGARS (PRC-126 with Charging Rack) |
|---|---|

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| Legend | |
|---|---|
| ——— | Voice |
| ═══ | Data |
| ▬▬▬ | Voice / Data |

# COMMUNICATION SYSTEM

**STUDIES IN PROCESS:**

- **COST / BENEFIT**

- **COMMONALITY vs SERVICE SPECIFIC REQUIREMENTS**

- **SECURITY**

- **RELIABILITY, AVAILABILITY, MAINTAINABILITY**

- **ENVIRONMENTAL (EMI, TEMPERATURE, HUMIDITY, ETC)**

- **FD/L**